

=====

Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=5; day=12; hr=13; min=48; sec=11; ms=789; ]

=====

\*\*\*\*\*

Reviewer Comments:

<220>

<221> modified\_base

<222> (78)

<223> a, t, c or g

<220>

<221> modified\_base

<222> (87)

<223> a, t, c or g

<400> 90

acn ath wsn mgn gay aay wsn aar aay acn ytn tay ttn car atg aay 48

Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn

1

5

10

15

wsn ttr mgn gcn gar gay acn gcn gtn tay tay tgy gcn aar 90

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys

20

25

30

A mandatory feature is required to cover every "n" used in a sequence.

SEQ ID # 90 does not have a feature to cover the "n" at positions 33 and 39. Please make all necessary changes.

\*\*\*\*\*

Application No: 10045674

Version No: 3.0

Input Set:

Output Set:

Started: 2009-04-30 16:49:51.088

Finished: 2009-04-30 16:50:09.582

Elapsed: 0 hr(s) 0 min(s) 18 sec(s) 494 ms

Total Warnings: 459

Total Errors: 11

No. of SeqIDs Defined: 637

Actual SeqID Count: 637

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

**Input Set:**

**Output Set:**

**Started:** 2009-04-30 16:49:51.088  
**Finished:** 2009-04-30 16:50:09.582  
**Elapsed:** 0 hr(s) 0 min(s) 18 sec(s) 494 ms  
**Total Warnings:** 459  
**Total Errors:** 11  
**No. of SeqIDs Defined:** 637  
**Actual SeqID Count:** 637

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
E 342	'n' position not defined found at POS: 33 SEQID(90)
E 342	'n' position not defined found at POS: 39 SEQID(90)
E 320	Wrong Nucleic Acid Designator, gc in SEQID (481)
E 257	Invalid sequence data feature in <221> in SEQ ID (636)
E 257	Invalid sequence data feature in <221> in SEQ ID (636)
E 257	Invalid sequence data feature in <221> in SEQ ID (636)
E 257	Invalid sequence data feature in <221> in SEQ ID (637)
E 257	Invalid sequence data feature in <221> in SEQ ID (637)
E 257	Invalid sequence data feature in <221> in SEQ ID (637)
E 257	Invalid sequence data feature in <221> in SEQ ID (637)
E 257	Invalid sequence data feature in <221> in SEQ ID (637)

# SEQUENCE LISTING

<110> LADNER, ROBERT C.  
 COHEN, EDWARD H.  
 NASTRI, HORACIO G.  
 ROOKEY, KRISTIN L.  
 HOET, RENE  
 HOOGENBOOM, HENDRICUS R. J. M.

<120> NOVEL METHODS OF CONSTRUCTING LIBRARIES COMPRISING  
 DISPLAYED AND/OR EXPRESSED MEMBERS OF A DIVERSE FAMILY  
 OF PEPTIDES, POLYPEPTIDES OR PROTEINS AND THE NOVEL  
 LIBRARIES

<130> D2033-708931

<140> 10045674  
 <141> 2001-10-25

<150> 06/198,069  
 <151> 2000-04-17

<150> 09/837,306  
 <151> 2001-04-17

<160> 637

<170> PatentIn Ver. 3.5

<210> 1  
 <211> 17  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 1  
 catgtgtatt actgtgc 17

<210> 2  
 <211> 44  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 2  
 cacatccgtg cttcttgac ggatgtggca cagtaataca catg 44

<210> 3

<211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         oligonucleotide  
  
 <400> 3  
 gtgtattaga ctgctgcc 18  
  
  
 <210> 4  
 <211> 43  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         oligonucleotide  
  
 <400> 4  
 ggcagcagtc taatacacca catccgtgtt cttcacggat gtg 43  
  
  
 <210> 5  
 <211> 47  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         oligonucleotide  
  
 <400> 5  
 cacatccgtg tttgttacac ggatgtggtg tcttacagtc cattctg 47  
  
  
 <210> 6  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         oligonucleotide  
  
 <400> 6  
 cagaatggac tgtaagacac 20  
  
  
 <210> 7  
 <211> 43  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 7  
atcgagtctc actgagccac atccgtggtt ttccacggat gtg 43

<210> 8  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 8  
gctcagtgag actcgat 17

<210> 9  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>  
<221> modified\_base  
<222> (10)..(24)  
<223> a, t, c, g, unknown or other

<400> 9  
cacgaggagn nnnnnnnnnn nnnn 24

<210> 10  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 10  
atgaccgaat tgctacaag 19

<210> 11  
<211> 46  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 11

gactctcag cttcttgctg aggagtcctt gtagcaattc ggtcat 46

<210> 12

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: 6 His tag

<400> 12

His His His His His His

1 5

<210> 13

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>

<221> modified\_base

<222> (6)..(10)

<223> a, t, c, g, unknown or other

<400> 13

gtctcnnnnn 10

<210> 14

<211> 11

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>

<221> modified\_base

<222> (1)..(6)

<223> a, t, c, g, unknown or other

<400> 14

nnnnnngaga c 11

<210> 15

<211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (11)..(24)  
 <223> a, t, c, g, unknown or other  
  
 <400> 15  
 cacg gatgtg nnnnnnnnnn nnnn 24

<210> 16  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         oligonucleotide  
  
 <220>  
 <221> modified\_base  
 <222> (1)..(14)  
 <223> a, t, c, g, unknown or other  
  
 <400> 16  
 nnnnnnnnnn nnnncacatc cgtg 24

<210> 17  
 <211> 14  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         oligonucleotide  
  
 <400> 17  
 gtgtattact gtgc 14

<210> 18  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         oligonucleotide



<400> 18  
cacatccgtg cacggatgtg gcacagtaat acac 34

<210> 19  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 19  
gtgtattaga ctgc 14

<210> 20  
<211> 34  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 20  
gcagtctaat acaccacatc cgtgcacgga tgtg 34

<210> 21  
<211> 34  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 21  
cacatccgtg cacggatgtg gtgtcttaca gtcc 34

<210> 22  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 22  
ggactgtaag acac 14

<210> 23

<211> 34  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         oligonucleotide  
  
 <400> 23  
 gagtctcact gagccacatc cgtgcacgga tgtg 34  
  
  
 <210> 24  
 <211> 14  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         oligonucleotide  
  
 <400> 24  
 gctcagtgag actc 14  
  
  
 <210> 25  
 <211> 14  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         oligonucleotide  
  
 <400> 25  
 gtgtattact gtgc 14  
  
  
 <210> 26  
 <211> 14  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         oligonucleotide  
  
 <400> 26  
 gtatatattact gtgc 14  
  
  
 <210> 27  
 <211> 14  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 27 gtgtattact gtaa	14
<210> 28 <211> 14 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 28 gtgtattact gtac	14
<210> 29 <211> 14 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 29 ttgtattact gtgc	14
<210> 30 <211> 14 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 30 ttgtatcact gtgc	14
<210> 31 <211> 14 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 31 acatattact gtgc	14

<210> 32  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 32  
acgtattact gtgc 14

<210> 33  
<211> 14  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 33  
atgtattact gtgc 14

<210> 34  
<211> 101  
<212> DNA  
<213> Homo sapiens

<400> 34  
agggtcacca tgaccagga cagtcctc agcacagcct acatgabcga gctgagcagg 60  
ctgagatctg acgacacggc cgtgtattac tgtgcgagag a 101

<210> 35  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 35  
agagtcacca ttaccagga cacatccgag agcacagcct acatggagct gagcagcctg 60  
agatctgaag acacggctgt gtattactgt gcgagaga 98

<210> 36  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 36  
agagtcacca tgaccaggaa cacctccata agcacagcct acatggagct gagcagcctg 60  
agatctgagg acacggcctgt gtattactgt gcgagagg 98

<210> 37  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 37  
agagtcacca tgaccacaga cacatccacg agcacagcct acatggagct gaggagcctg 60  
agatctgacg acacggccgt gtattactgt gcgagaga 98

<210> 38  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 38  
agagtcacca tgaccgagga cacatctaca gacacagcct acatggagct gagcagcctg 60  
agatctgagg acacggccgt gtattactgt gcaacaga 98

<210> 39  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 39  
agagtcacca ttaccagggga caggtctatg agcacagcct acatggagct gagcagcctg 60  
agatctgagg acacagccat gtattactgt gcaagata 98

<210> 40  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 40  
agagtcacca tgaccagggga cacgtccacg agcacagtct acatggagct gagcagcctg 60  
agatctgagg acacggccgt gtattactgt gcgagaga 98

<210> 41  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 41  
agagtcacca ttaccagggga catgtccaca agcacagcct acatggagct gagcagcctg 60  
agatccgagg acacggccgt gtattactgt gcggcaga 98

<210> 42  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 42

agagtcacga ttaccgcgga cgaatccacg agcacagcct acatggagct gagcagcctg 60  
agatctgagg acacggccgt gtattactgt gcgagaga 98

<210> 43  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 43  
agagtcacga ttaccgcgga caaatccacg agcacagcct acatggagct gagcagcctg 60  
agatctgagg acacggccgt gtattactgt gcgagaga 98

<210> 44  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 44  
agagtcacca taaccgcgga cagctctaca gacacagcct acatggagct gagcagcctg 60  
agatctgagg acacggccgt gtattactgt gcaacaga 98

<210> 45  
<211> 100  
<212> DNA  
<213> Homo sapiens

<400> 45  
aggetcacca tcaccaagga cacctccaaa aaccaggtgg tccttacaat gaccaacatg 60  
gacctgtgg acacagccac atattactgt gcacacagac 100

<210> 46  
<211> 100  
<212> DNA  
<213> Homo sapiens

<400> 46  
aggetcacca tctccaagga cacctccaaa agccaggtgg tccttaccat gaccaacatg 60  
gacctgtgg acacagccac atattactgt gcacggatac 100

<210> 47  
<211> 100  
<212> DNA  
<213> Homo sapiens

<400> 47  
aggetcacca tctccaagga cacctccaaa aaccaggtgg tccttacaat gaccaacatg 60  
gacctgtgg acacagccac gtattactgt gcacggatac 100

<210> 48  
<211> 98  
<212> DNA

<213> Homo sapiens

<400> 48

cgattcacca tctccagaga caacgccaag aactcactgt atctgcaa at gaacagcctg 60  
agagccgagg acacggctgt gtattactgt gcgagaga 98

<210> 49

<211> 100

<212> DNA

<213> Homo sapiens

<400> 49

cgattcacca tctccagaga caacgccaag aactccctgt atctgcaa at gaacagtctg 60  
agagctgagg acacggcctt gtattactgt gcaaaagata 100

<210> 50

<211> 98

<212> DNA

<213> Homo sapiens

<400> 50

cgattcacca tctccaggga caacgccaag aactcactgt atctgcaa at gaacagcctg 60  
agagccgagg acacggcctt gtattactgt gcgagaga 98

<210> 51

<211> 98

<212> DNA

<213> Homo sapiens

<400> 51

cgattcacca tctccagaga aaatgccaag aactccttgt atcttcaa at gaacagcctg 60  
agagccgggg acacggctgt gtattactgt gcaagaga 98

<210> 52

<211> 98

<212> DNA

<213> Homo sapiens

<400> 52

agattcacca tctcaagaga tgattcaaaa aacacgctgt atctgcaa at gaacagcctg 60  
aaaaccgagg acacagcctt gtattactgt accacaga 98

<210> 53

<211> 98

<212> DNA

<213> Homo sapiens

<400> 53

cgattcacca tctccagaga caacgccaag aactccctgt atctgcaa at gaacagtctg 60  
agagccgagg acacggcctt gtatcactgt gcgagaga 98

<210> 54  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 54  
cgattcacca tctccagaga caacgccaag aactcactgt atctgcaa at gaacagcctg 60  
agagccgagg acacggctgt gtattactgt gcgagaga 98

<210> 55  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 55  
cggttcacca tctccagaga caattccaag aacacgctgt atctgcaa at gaacagcctg 60  
agagccgagg acacggcctgt atattactgt gcgaaaga 98

<210> 56  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 56  
cgattcacca tctccagaga caattccaag aacacgctgt atctgcaa at gaacagcctg 60  
agagctgagg acacggctgt gtattactgt gcgaaaga 98

<210> 57  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 57  
cgattcacca tctccagaga caattccaag aacacgctgt atctgcaa at gaacagcctg 60  
agagctgagg acacggctgt gtattactgt gcgagaga 98

<210> 58  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 58  
cgattcacca tctccagaga caattccaag aacacgctgt atctgcaa at gaacagcctg 60  
agagctgagg acacggctgt gtattactgt gcgaaaga 98

<210> 59  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 59  
cgattcacca tctccagaga caattccaag aacacgctgt atctgcaa at gaacagcctg 60



agagccgagg acacggctgt gtattactgt gcgagaga

98

<210> 60

<211> 100

<212> DNA

<213> Homo sapiens

<400> 60

cgattcacca tctccagaga caacagcaaa aactccctgt atctgcaa at gaacagtctg 60

agaactgagg acaccgcctt gtattactgt gcaaaagata 100

<210> 61

<211> 98

<212> DNA

<213> Homo sapiens

<400> 61

cgattcacca tctccagaga caatgccaa aactcactgt atctgcaa at gaacagcctg 60

agagacgagg acacggctgt gtattactgt gcgagaga 98

<210> 62

<211> 98

<212> DNA

<213> Homo sapiens

<400> 62

agattcacca tctcaagaga tggttccaa agcatcgctt atctgcaa at gaacagcctg 60

aaaaccgagg acacagccgt gtattactgt actagaga 98

<210> 63

<211> 98

<212> DNA

<213> Homo sapiens

<400> 63

cgattcacca tctccagaga caattccaag aacacgctgt atcttcaa at gaacagcctg 60

agagccgagg acacggccgt gtattactgt gcgagaga 98

<210> 64

<211> 98

<212> DNA

<213> Homo sapiens

<400> 64

agattcacca tctccagaga caattccaag aacacgctgt atcttcaa at gggcagcctg 60

agagctgagg acatggctgt gtattactgt gcgagaga 98

<210> 65

<211> 98

<212> DNA

<213> Homo sapiens

<400> 65  
agattcacca tctccagaga caattccaag aacacgctgt atcttcaa at gaacagcctg 60  
agagctgagg acacggctgt gtattactgt gcgagaga 98

<210> 66  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 66  
agattcacca tctcaagaga tgattcaaag aactcactgt atctgcaa at gaacagcctg 60  
aaaaccgagg acacggcctgt gtattactgt gctagaga 98

<210> 67  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 67  
aggttcacca tctccagaga tgattcaaag aacacggcgt atctgcaa at gaacagcctg 60  
aaaaccgagg acacggcctgt gtattactgt actagaca 98

<210> 68  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 68  
cgattcacca tctccagaga caacgccaag aacacgctgt atctgcaa at gaacagcctg 60  
agagccgagg acacggctgt gtattactgt gcaagaga 98

<210> 69  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 69  
agattcacca tctccagaga caattccaag aacacgctgc atcttcaa at gaacagcctg 60  
agagctgagg acacggctgt gtattactgt aagaaaga 98

<210> 70  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 70  
cgagtcacca tatcagtaga caagtcgaag aaccagttct cctgaagct gagctctgtg 60  
accgccgcgg acacggcctgt gtattactgt gcgagaga 98

<210> 71

<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 71  
cgagtcacca tgtcagtaga cacgtccaag aaccagttct ccctgaagct gagctctgtg 60  
accgccgtgg acacggccgt gtattactgt gcgagaaa 98

<210> 72  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 72  
cgagttacca tatcagtaga cacgtctaag aaccagttct ccctgaagct gagctctgtg 60  
actgccgcgg acacggccgt gtattactgt gcgagaga 98

<210> 73  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 73  
cgagtcacca tatcagtaga caggtccaag aaccagttct ccctgaagct gagctctgtg 60  
accgccgcgg acacggccgt gtattactgt gccagaga 98

<210> 74  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 74  
cgagttacca tatcagtaga cacgtccaag aaccagttct ccctgaagct gagctctgtg 60  
actgccgcag acacggccgt gtattactgt gccagaga 98

<210> 75  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 75  
cgagttacca tatcagtaga cacgtctaag aaccagttct ccctgaagct gagctctgtg 60  
actgccgcgg acacggccgt gtattactgt gcgagaga 98

<210> 76  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 76  
cgagtcacca tatcagtaga cacgtccaag aaccagttct ccctgaagct gagctctgtg 60  
accgccgcgg acacggctgt gtattactgt gcgagaga 98

<210> 77

<211> 98

<212> DNA

<213> Homo s